



DEPARTMENT OF THE NAVY

NAVAL AIR STATION OCEANA
1750 TOMCAT BOULEVARD
VIRGINIA BEACH, VIRGINIA 23460-2191

IN REPLY REFER TO:

NASOCEANAINST 6260.2E
30
15 Nov 00

NAS OCEANA INSTRUCTION 6260.2E

Subj: SAFETY PRECAUTIONS CONCERNING HIGH POWER RADAR EQUIPMENT

Ref: (a) Radio Frequency Hazards to Ordnance, Personnel and
Fuel (NAVSEA OP 3565)

1. Purpose. Establish safety precautions, per reference (a), to ensure that maintenance personnel are not exposed to hazardous Radio Frequency (RF) intensity levels from high power radar equipment.

2. Cancellation. NASOCEANAINST 6260.2D

3. Background. Development of high power radar equipment and high gain antennas has increased the possibility of biological injury to personnel working in the vicinity of this equipment. When electromagnetic energy is absorbed in the tissues of the body, heat is produced. If the heat energy cannot be dissipated as fast as it is produced, the internal temperature of the body will rise in the area of the exposure. This may result in damage to the tissue and if the rise is sufficiently high, in complete destruction. The eye is particularly vulnerable to RF energy and irreparable loss of vision or blindness can result. While injuries will not occur from exposure to the beams of high power radar under most conditions, certain basic safety precautions should be instituted in view of the potential hazard.

4. Action. Commanding Officers, Officers in Charge and Department Heads shall:

a. Ensure that no radar equipment is allowed to radiate within any hangar unless the antenna is directed into an open area away from personnel or into an absorbing screen designed for this purpose.

b. Ensure that visual inspection of feed horns or open ends of waveguides is not made unless the equipment is secured for that purpose.

c. When radiating radar outside of hangars, ensure that aircraft are parked or the antennas oriented so that the beam is directed away from personnel working areas or ordnance handling areas.

d. Ensure that no radiating antennas are allowed to sweep in a 360-degree scan in congested areas.

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e. Ensure that maintenance personnel are familiar with reference (a) and this instruction.

5. Review Responsibility. The Aviation Safety Officer is responsible for the periodic review and update of this instruction.



W. C. ZOBEL

Distribution:

NASOCEANAINST 5216.1V

Lists I (Case A) (11, 30 and 40 only) and III (50, NO5VB, 42E1, 42GG1, 42L1, 42L2 and 42XX)